

CALCULATION OF FISHER'S EXACT TEST Form L2				Complaint no.	Place of outbreak	Vehicle
<u>Step5</u> (Consider only if steps 3 and 4 are not performed on Form L1)				$\text{Formula for calculation} = \frac{(a+b)!(c+d)!(a+c)!(b+d)!}{(n!)!(a!)!(b!)!(c!)!(d!)}$		
One-tailed test <i>p1.1 Observed table</i>				$\text{vi } p1.1 = \frac{(\quad)!(\quad)!(\quad)!(\quad)!}{(\quad)!(\quad)!(\quad)!(\quad)!(\quad)}$		
Exposure	III	Well	Attack Rate	<p>vii Cancel any possible factorial (!) values List individual values from factorials</p>		
Ate/drank	a	b	a+b(i)	<p>viii Cancel any possible remaining values</p>		
Did not eat/drink	c	d	c+d(ii)	<p>ix Calculate <i>p1.1</i> from the remaining values</p>		
Total	a+c(iii)	b+d(iv)	n(v)			
<i>p1.2 Table</i>				$\text{vi } p1.2 = \frac{(\quad)!(\quad)!(\quad)!(\quad)!}{(\quad)!(\quad)!(\quad)!(\quad)!(\quad)}$		
Exposure	III	Well	Attack Rate	<p>vii Cancel any possible factorial (!) values List individual values from factorials</p>		
Ate/drank	a+1	b-1	a+b(i)	<p>viii Cancel any possible remaining values</p>		
Did not eat/drink	c-1	d+1	c+d(ii)	<p>ix Calculate <i>p1.2</i> from the remaining values</p>		
Total	a+c(iii)	b+d(iv)	n(v)			
<i>p1.3 Table</i>				$\text{vi } p1.3 = \frac{(\quad)!(\quad)!(\quad)!(\quad)!}{(\quad)!(\quad)!(\quad)!(\quad)!(\quad)}$		
Exposure	III	Well	Attack Rate	<p>vii Cancel any possible factorial (!) values List individual values from factorials</p>		
Ate/drank	a+2	b-2	a+b(i)	<p>viii Cancel any possible remaining values</p>		
Did not eat/drink	c-2	d+2	c+d(ii)	<p>ix Calculate <i>p1.3</i> from the remaining values</p>		
Total	a+c(iii)	b+d(iv)	n(v)			
Etc. continue for all other <i>p</i> -value needed				<p>x <i>p1-value</i> = <i>p1.1</i> + <i>p1.2</i> + <i>p1.3</i> + <i>p1.x</i> for one-tailed test</p>		

Interpretation: If the *p*-value is less than or equal to 0.05, then there is evidence to suggest that the food/beverage under investigation is related to the observed illness; if it is 0.005 or less, there is strong evidence for this relationship.